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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JIANG, et al.

Serial No.: 10/502,085

Filed: April 12, 2005

For: IMMUNOSTIMULATORY,

COVALENTLY LIPIDATED

OLIGONUCLEOTIDES

Art Unit: 1644

Bexaminer:

June 7, 2007

Docket No.: JIANG=4A

Confirmation No.: 3733

INFORMATION DISCLOSURE STATEMENT [IDS]

U.S. Patent and Trademark Office Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

- 1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:
- [] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application. See 37 CFR 1.97(b)(1) and (3).
- [X] B. before the mailing date of a first office action on the merits. See 37 CFR 1.97(b).
- [] C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary certification (box "i" below) or paid the necessary fee (box "i" below). See 37 CFR 1.97(c)(2).
 - [] i. Counsel certifies that, upon information and

belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

- [] ii. A Credit Card Authorization, authorizing payment for the fee set forth in 1.17(p), presently believed to be \$180, is attached.
- [] D. after (A), (B) and (C) above, but before payment of the issue fee. Applicant petitions under 37 C.F.R. 1.97(d) for consideration of this IDS. A Credit Card Authorization, authorizing payment for the fee set forth in 1.17(p)(1), presently believed to be \$180 is attached. Counsel certifies that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- [] E. As a submission in accordance with the transitional procedure for limited examination after final rejection pursuant to 37 CFR §1.129(a). Pursuant to MPEP §706.07(g), page 700-66, col. 2 (August 2001), this IDS is treated as if filed with a period set forth in 37 CFR §1.97(b) and considered without the petition and petition fee required by 1.97(d).
- [] F. As a submission with or after a request for continued examination under CFR §1.114, and before the mailing of a first office action on the RCE. See 37 CFR §1.97(b)(4).
 - 2. In accordance with 37 C.F.R. 1.98, this IDS includes a

list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document is attached, except as explained below.

- [] While an IDS filed under §1.97 must contain a "list of all patents, publications or other information submitted for consideration by the Office", see §1.98(a) (1), the only requirement for the list is that it provide the information set forth in §1.98(b). There is no requirement that a form PTO-1449 be used (MPEP §609 merely says that use of this form is "encouraged"). Counsel has used a list provided to him by Applicants, and not transferred the information to a PTO-1449, to avoid the risk of any inadvertent error in transferring the information.
- [X] A. Documents <u>AA-AS</u> are U.S. Patents or U.S. Patent Publications, and hence copies of these documents have not been provided. See 37 CFR 1.98(a)(2)(ii).
- [] B. Documents _____ are deemed substantially cumulative to documents _____, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- [] C. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

[insert serial number/filing date]

Applicants identify these documents by attaching hereto copies of the form PTO-892s and PTO-1449s from the files of the prior applications or a fresh PTO-1449 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application. If copies of any of these documents cannot be found in the files of the prior applications, the Examiner is requested to so notify counsel before taking action in this case, so replacement copies can be submitted. While an IDS filed under §1.97 must contain a "list of all patents, publications or other information submitted for

consideration by the Office", see §1.98(a) (1), the only requirement for the list is that it provide the information set forth in §1.98(b). There is no requirement that a form PTO-1449 be used (MPEP §609 merely says that use of this form is "encouraged") and no prohibition on submitting a copy of a form PTO-1449 or form PTO-892 from a prior case. Indeed, the re-use of such forms is desirable as it avoids error in transferring the information, and evidences that the reference was considered in a prior application. A previously accepted PTO-1449, or an examiner-prepared PTO-892, necessarily complies with §1.98(b).

- [X] 3. Document \underline{AY} is not in the English language. In accordance with 1.98(a)(3), Applicants state:
 - [X] document AY already contains an English language abstract, summary or claim set.
 - [X] document <u>BC</u> is an English language abstract of a foreign language document not presently in applicants possession or control.
- 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).
- 5. If the month of publication of a nonpatent reference is not stated, it is because it is not apparent from review of the reference. If requested to do so by the Examiner, Applicants will attempt to locate and write to the publisher.

If the publication date of a cited document is set forth only as a publication year, and that year is prior to the year of filing or, if priority is claimed, year of priority of this application, then the particular month of publication is not in issue. Likewise if that publication year is after the year of filing of this application, the month of publication is not in issue.

If the date of publication of a nonpatent reference is stated, then, except as explained below, it is the nominal date stated in the reference, or in a larger document (journal or

book) from which the reference was extracted. Applicants reserve the right to challenge this date by contacting the publisher to determine the actual shipment date, or by contacting recipients to determine the receipt dates.

6. Other information being provided for the examiner's consideration follows:

[insert other information]

- 7. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.
- 8. The Commissioner is hereby authorized and requested to charge any additional fees which may be required in connection with this paper or credit any overpayment to Deposit Account No. 02-4035.

Respectfully submitted,

BROWDY AND MZIMARK, P.L.L.C. Attorneys for Applicant

Iver P. Cooper

Reg. No. 28,005

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SUBSTITUTE FOR FORM IPC/SB/08 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT			ATTY DOCKET NO: JIANG=4A SERIAL NO: 10/502,085				
			FIRST INVENTOR: Zi-Hua Jiang				
			FILING DATE: April 12, 2005				
			CONFIRMATION NO	.: 3733	ART UNIT: 1644		
U.S. PAT date)	ENT	DOCUMENTS (include a	t least patentee,	patent/pub number and	l filing/issue	/pul	
EXAM. INITIAL	ID	DOCUMENT NUMBER	FILING, ISSUE OR PUBLICATION DATE MM-DD-YYYY	PATENTEE OR APPLICANT	Relevant Passage(s)	T	
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EXAM. INITIAL	ID	COUNTRY CODE & DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	PATENTEE OR APPLICANT	Relevant Passage(s)	T	
/MN/	AT	WO 98/18810	05-07-1998	THE UNIVERSITY OF IOWA RESEARCH FOUNDATION		Е	
EXAMINER /Albert M Navarro/			DATE CONSIDERED (06/06/2008			
applicant	nce <u>a</u>	nd not considered.	Include copy of t	line through citation this form with next con	mmunication to		

^{* &}quot;Relevant Passages" column is optional. Put check in "T" column if English translation of entire document included. If English language abstract included, put A in this box. If ref. in English, put "E". If requirement otherwise met, put O.

SUBSTITUTE FOR FORM IPC/SB/08 ATTY DOCKET NO: JIANG =4A SERIAL NO: U.S. DEPARTMENT OF COMMERCE 10/502,085 PATENT AND TRADEMARK OFFICE FIRST INVENTOR: Zi-Hua Jiang INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT FILING DATE: April 12, 2005 CONFIRMATION NO.: 3733 ART UNIT: 1644 FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country) T-EXAM. COUNTRY CODE & PUBLICATION TD PATENTEE Relevant INITIAL DOCUMENT NUMBER DATE OR APPLICANT Passage(s) MM-DD-YYYY WO 98/40100 /MN/ΔU 09-17-1998 OTTAWA CIVIC LOEB \mathbf{E} RESEARCH INSTITUTE ΑV WO 99/51259 10-14-1999 UNIVERSITY OF TOWA E RESEARCH FOUNDATION WO 99/61056 12-02-1999 LOEB HEALTH RESEARCH AW \mathbf{E} INSTITUTE AT THE OTTAWA HOSPITAL AX WO 00/54803 09-21-2000 PANACEA E PHARMACEUTICALS, LLC ΑY WO 01/07055 02-02-2001 MOLOGEN FORSCHUNGS-. Д ENTWICK-LUNGS-UND VERTRIEBS GMBH WO 01/12804 02-22-2001 HYBRIDON, INC. AZ. Е RΔ WO 01/83503 11-08-2001 HYBRIDON, INC. E WO 01/97843 12-27-2001 UNIVERSITY OF IOWA RESEARCH FOUNDATION JP 10 251292 12-31-1998 MATSUDA AKIRA Α OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication) Please list in alphabetical order. BD ALEXOPOULOU, et al., "Recognition of double-stranded RNA and activation of /MN/ NF-KB by Toll-like receptor 3", NATURE, vol. 413, pp. 732-738, October 18, 2001. DAVIS, et al., "Drug Leads from Combinatorial Phosphodiester Libraries", MED. CHEM., VOL. 38, PP. 4363-4366, 1995. /MN/ HEMMI, et al., "A Toll-like receptor recognizes bacterial DNA", NATURE, vol. 408, pp. 740-745, December 7, 2000. BF /MN/ BG HILTBOLD, et al., "Naturally Processed Class II Epitope from the Tumor /MN/ Antigen MUC1 Primes Human CD4* T Cells", CANCER RESEARCH, vol. 58, pp. 5066-5070, November 15, 1998. **EXAMINER** /Albert M Navarro/ DATE CONSIDERED -06/06/2008 EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{* &}quot;Relevant Passages" column is optional. Put check in "T" column if English translation of entire document included. If English language abstract included, put A in this box. If ref. in English, put "E". If requirement otherwise met, put O.

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				CONFIRMATION NO.: 3733 ART UNIT: 1644				
	OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)							
//	MN/	BH KABANOV, et al., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <u>FEBS</u> LETTERS, vol. 259, no. 2, pp. 327-330, January 1990.						
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E	IMAX	NER	/Albert M Navarro/		DATE CONSIDERED 06/06/2008			
c	EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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			CONFIRMATION NO.: 3733 ART UNIT: 164					
	DOCU		itle, nam	e of publication, volume, pag	es and date of			
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